

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 November 2005 (17.11.2005)

PCT

(10) International Publication Number  
**WO 2005/108099 A1**

(51) International Patent Classification<sup>7</sup>: **B41J 11/42,**  
B65H 5/00

1570073 (JP). KOGURE, Seichi [JP/JP]; 5-8-202, Sai-  
waicho, Atsugi-shi, Kanagawa, 2430012 (JP).

(21) International Application Number:  
PCT/JP2005/008651

(74) Agent: ITOH, Tadahiko; 32nd Floor, Yebisu Garden  
Place Tower, 20-3, Ebisu 4-chome, Shibuya-ku, Tokyo,  
1506032 (JP).

(22) International Filing Date: 2 May 2005 (02.05.2005)

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,  
KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2004-137036 6 May 2004 (06.05.2004) JP  
2005-000057 4 January 2005 (04.01.2005) JP

(71) Applicant (for all designated States except US): RICOH  
COMPANY, LTD. [JP/JP]; 3-6, Nakamagome 1-chome,  
Ohta-ku, Tokyo, 1438555 (JP).

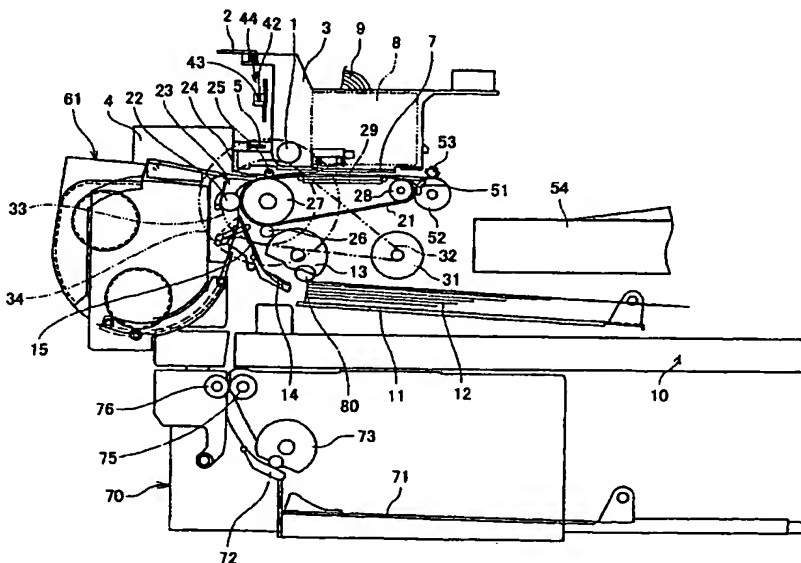
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

(72) Inventors; and

(75) Inventors/Applicants (for US only): IMOTO, Shinji  
[JP/JP]; 8-11-304, Kinuta 1-chome, Setagaya-ku, Tokyo,

[Continued on next page]

(54) Title: IMAGE FORMING APPARATUS



(57) Abstract: An image forming apparatus can improve an accuracy of conveyance of a recording medium with a simple structure and prevent a reverse flow of mist so as to stably form a high-quality image. A conveyance belt (21) conveys a recording medium (12) by attracting the recording medium by an electrostatic force generated by electric charges applied thereto. A recording head (7) discharges droplets of a recording liquid toward the recording medium (12). An amount of electric charges induced on a surface of the recording medium (12), which has been conveyed to a recording position where the droplets of the recording liquid are discharged from the recording head (7) toward the recording medium (12), is adjusted in accordance with a resistance value of the recording medium (12).

WO 2005/108099 A1



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*